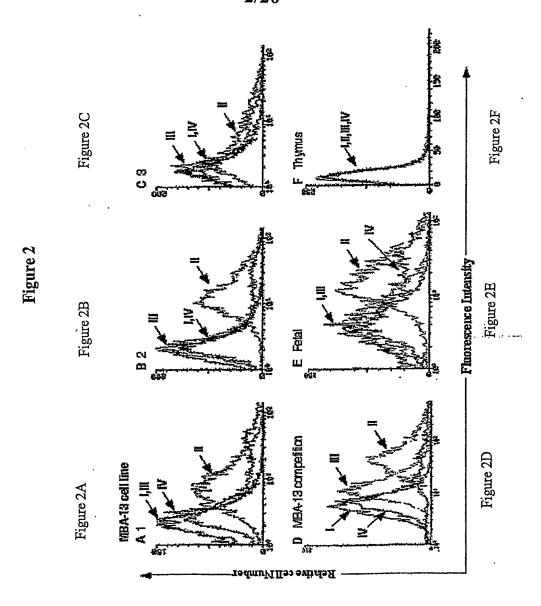
Figure 1

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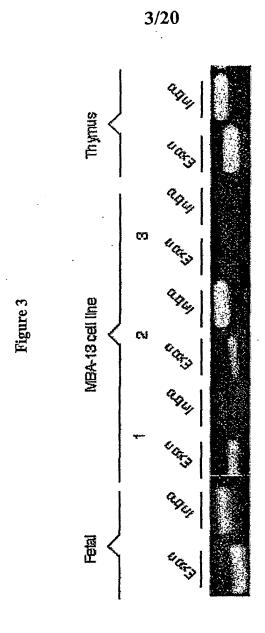


Figure 4

Sequences of intronic JB sequences containing Met:

(Met: bold; JB exon: italics)

JB2.1 KGSREVEPPFSPYHVNHQQSIRTCMGNYELIKKHStopVE KStopTLCGKEVTSPFSLEATWTPTGSLQISNSLCQTLSE StopMDIRSQAKSGISSSIStopDRPHARSRLPYQFWRStopM ENVSNPGSCIEEGEERGRILGSPFLLCNYAEQFFGPGT RLTVL.....

JB2.6 ELLGNCSGEFWGFWRLYPEFPSRALEREAEStopQGDFP StopMGEYLAEPRGFVCGVEPLCSYEQYFGPGTRLTVL....

Sequences of intronic Ja sequences containing Met:

Jata 1 VSKKKKKKKSVTILStopNSEPAEGAINSSLLGSLDPGStopNVLEHCTGLLPSPKDDPStopCQDRSSFLWGGGQWIFAVIVFCLAHSPRLWStopPETSPQSTTQEQRVKGStopLNStopGERDIGHVRTRRNFTQKKNCHLGRCStopSVSMAEVTPPPCPRLVSQLRHGHStopQKGGFLSSLKTNLAESHLPSSPNEPVVSVDALGSVRRVFAVAEGSRLTRRARWGRTYRGWTEASPCLHSSCAAStopSSCGFStopTGGRGGWGRGAIPKAVACFGICSGLLCLPPWERTHLASRRLDVAGQEDTGVGGNSFRGEGERGGRTVVEGVTGGSMSRMStopSEStopVKFKKLEIKNKKQGRGLQKVYRAGTVDFVMAWHTVANYGNEKITFGAGTKLTIKP....

Jata46 Stop V F L P G R W E P K Stop E V D R D I S N P P C K P L V Stop L P T V D T V Stop T I Stop R T L S H I D E G S D V V H T Stop E D S R D L S L V T V S D C M P I V V H S R V Q Q T K D R D I K I R W T L S Stop P H L C N Q M I F T G S L A N G C V A Stop S L T I S P L L S P W L S F G S L S L T Stop N L K Stop S I Y Stop I I R F L G C I T H K K M T S R H I N I N P E E R G Q R A L S Q T C S E L N L T T P C F N Q L A S A Y D Q L R Q R A T D R K W S S R H H L T R A L Stop P H Q R Stop Y F R V Q E S F P Q A G W L E R G H G S A L R Q A M E A G W E V Q H W V S D M E C L T V V T G S G K L T L G A G T R L Q V N L ...

Figure 4 cont.

Janew05 Stop V K D Stop G Y P K T K Stop V C G F A V L C S F G G C M S L P P R S L C I T L M G L C Stop L M K S G H S K D L D E E V I I I T A F F H Y Stop L R I Stop R S A Stop R Stop F I N V R L M F V L R Stop Y Stop K P N N S K I R L S S V T Stop T H I H T H S H T H I L T H W H N H T H T T L T Q P H T H S L S L S L S L S L S L S L S L S L P R Q C N C I W F P S R N G C C V C L T Stop D M Q S Y Q L V S W L G F C Y C Stop F S V K T L P V K E A W C Y Q P Stop S C H Y S N H I Y T Stop P F Y Y F I S L K L A Q L I R I Q C W G N K T S G F Stop S S S E Stop L H S Q L L V L R G C S K P S Q T L G T K A A R R K A S T R G E D D V A F L G L P L G P S C L L V I V R P Q M T V N S G G S N A K L T F G K G T K L S V K S

W V Stop R F H V T A V A L C S F Stop T S L L H L F Stop L E T L G F R LSFLFKKQSLStopSKStopQDLLCLLSFHIVTKAGRICSKLGLRL LAKVEWM Stop V Stop LVYRKERFVLLFF Stop P Stop Stop Y S KVKATTVASKVLQAWSVLQGETWGNWLTFHGKTGMLFV VGLLLLLSSLSLSLKETStop YNTFStopLSGFEStopLGIQ MCITCSWQGSRAVVLNLPNVVAPSPPKTIKLFCCYFIA VTLLLL Stop I G M Stop I S Y M Q L I Stop Y A T P V K G S L N P Q R R S ALQDESRCCRGRWSTVSNVRGAIELGRNTMPTFEEKKN S S L G L E Q D Stop P L F L V S P L P L E K K P F I C N G L S R L M S F Stop MRFHVLT Stop Stop DSLGRRSLLPLQV Stop Stop VF Stop D Stop V G N V N C T A K I R R A G I N S Q P L L M L S L Stop N R N Q I R M L SSVCVHTPPRAS StopFD StopCQ StopLIQIFRHLSEQTSLG SLCLN Stop LSRYLHNCQICFTLCCIDS A Stop Stop KQMRLC FPRSFSPRRSSLPPSK StopHLFTQREDVQRVTStopLIAA ASLHLYDSLPWKRLKHFIRLIS Stop TD Stop QPN Stop EERN RFStopASFLWLQFQATHLEHLVRHLRNTGARREVVSLCG LVFLSCTENFTQEEESKStopVENStopQPGIHMYTKQSStop ASALSGSTVWFPHSPTPAPFISNTYIILFSFSFEFLSA MPSHNPSTYHCLSNPRMDGSGTGRVLFSGPSAEPLKKC RLYPSSStopVATRRLGRGQDEEKPQESGTASLWStopYIR LNLLSGLKCFSFHLEPMCGSEEVFVVESAT*VADRLCKC* ADIWIWHKSHSMST....

Janew06 KCVFSCSLGLEQYCSLHPQIFSRRIQCLALQTLPV
StopPLKGSYSFFStopKStopHRRIPFNVANCGGDStopTAQGPNLCS
SLLStopGQLCLLSHRStopTSESGGLFPSLAFPVDEVVL
STNFIVKDTHDRQLLPYFSLNKFFLCStopStopLStopQHIS
ANEFLVIQINSSVTStopTVASYPIIQNSLTHHSAAAHCA
SSNPDLHASSNKAKRMACYQMYFTGRKVDEPSELGSGL
ELSYFHTGGSSQAVGLFIENMISTSHGHFQEMQFSIWS
FTVLQISAPGSHLVPETERAEGPGVFVEHDITVSSNTN
KVVFGTGTRLQVLP....

Figure 4 cont. (2)

Stop VMFHFLMFStopNSLPLSStopRCSECRVGKLHMLG JaNew08 HGGQHSCTGYSTAQPDTTSPTTGETAPTLPPDTKIFLIVYLI Stop RAKGKIKKLCPESILKSPRPSPPYPH Stop SPADCK FNVIFGSY Stop K Stop Stop GFLCLMTPTVSLPSFIKGLLFC V W P L L A S W F C P H A P L C L F Q G W A G D N S F K S H F D V T D N R D KVLAKCNTAHGVFSRHTTSQLFSSVQKHGHSYLMSAIY SDTAKCSFKAGTRDFLWDLFLRLTMGWAFSGSSEMPSW IPALPMEILWSG StopTAKPDMFLLYRLLQGLEIRTLREN KSFGStopMGRLLDGSIRKRNDStopQEERPKKNTGQALGW GGVGMSRKMVTVGIQEAGSLS StopEGKQGFL StopLKVPS QLSNLNQQGHLPFPSDFPVHVGMPLPPTMVCStopEVGRG IDQEYVStopHSStopGPLFKHETPESVRGAKSLGPRREMQ QSNSSQQVWRSTEQDPVLALCLTPLASPDHTAHPSSFS Stop P Q E S K V L D R E P E I P Stop P G Q V Q K G W S G A Q G W F L K T L WISIStop FLIYNKF Stop LS Stop VIRKMFLL Stop TIP VKGK DNIYRGPLLRCQFPPWASMWWGLILSASVKFLQRKEIL CLPGTGSNRLTFGKGTKFSLIP...

Stop VIVTHPLC Stop IPPTRSIFALS SL StopLGSLSNVVS Jalb2A VTPCPYLLSRYKWSKQILGFHStopHSETDNCVLDILQKEGFQS KGSHYFYStopLTHKEAGDNWKVPGEYLGFQKADMAQCMHS Stop KIP Stop LTFIE YLLYACVNAPCTLSHLR G Stop W LWGRFYPTFKGKVEIVTKWLRENGGPSStopTSSRPGCPH CGLSQPGSCStopGLYRMKStopPVVLVTTSSVLSQStopP Stop CL Stop EQGVR Stop DSLCFLDSDTLKQNGECVHEQFHS GSMVNGQStopTNLKRSSLWLESStopPFSTPLSSLPTFLS SWTFISGKPLHRCLCStop StopRSQIKNStopERLSPGHTKN LRR Stop LFFQYLKNSCVDNGRG Stop HQRQNQKQ Stop MKRR PSFSGMLLNGAVGGQAPLStopSLESALQGLHSGSSGLRW RALWKEFLWHFRLWISCELEVLRPHDPSIEDKRVGYIC FFLFLLF Stop Stop PRNRPSNCSQAEAYRDFFTLRR Stop RT MISQCSKWGKKRREREREREREREREREREREREREMPStop RRARGStopTKEVGStopLCRGQIStopSIEVFISSALEStopN PSIM Stop VLVTEAVF Stop TGKQDQGSEGLPI Stop TLSKGC VIAF Stop Stop ERTLAVERLLLPQIICLLRCSLStop RKSDC LP Stop LLGAWGKDLGKLRADRRSFSALHSQARERGWGMV GADLCKGGWHCVDRGSALGRLHFGAGTQLIVIP...

Figure 4 cont. (3)

JoDK1 Stop V C L F L W I P N L I H C Stop D K C K L F R H V S G V S T V P I H P D I T G S K V P S H A F P V L T R K T G S S L Y C W Q A Q Stop G S R L E D A S D A Q Q P A W D C P G R E S C S E M P S S L P L G I I L Stop L S S P T Stop A R P C L S V A Y S I P A S H T C G C A N I L I E A S G R S Stop G S S M L L F Stop G K A S H Stop S top S K A G Stop L D S P P P K S L H I P G S G L Q V Q T T M L V F V S top V L D M E P G C A C L Q G K H F I G S top A I S L A H L P V S I F F S top E R I S W S top Y S H L V H R Q K D D V D V P R W H T V I W S Q A L I F P P S I F R C L S V K V I S S M S P G G R L A C C P S S A V A W M A S S C Y P T S top L S top C I P I I H L T L Y V Y L L F P Y S S top M Y C H A T V M L F I V S S V S S V V P I S top T K I Q R P N C L P C L K I I V L E K K L E F C C C L Y R H S top E L R S L A V A R T G Y D F C S V S top L H T P S top V S top M R E P V K N L Q G L V S L C L P G R Q S S D I W N R N H G I S Q P

JOTA39 Stop VPDS W Stop L Stop RPPLS H S L Y H T D D H M P Y H S S K V E L G F N E B R N Stop M L L V V A V L H P M S H S M F I I T L I T S D K R K F T R R T V T I C Stop T L V K M K V S T G A G A Y C N S G Y Q K D Q A L A R K K L N K Stop Stop V D L V K L L Q I F F K N Q Y V S E L T G E Y S A A I L S G F S Y S Y G T T V V E P C K R G F H G L N S M L S L Y S S N Q K G I P S R T P K R E E S Stop M L I T S I Stop D H S R L S I F V R Q H G T T I Y N V F I W G T R H H Stop R D A Stop Stop G C Stop D P L N L P Q Y L Stop G T V V K E L M V H A D K H I P C M G K L S K S top G C R T G C E Q D R S C R N P R N N S S R R A D P E E R A A Q L K H I Q V P S top I C F D S C T G P A L S V K R K C L I I L H K L I S top G S top V N V C K N I L Q I L K C Y P H I K Y G S I K Q Q K I L K L G Q S S top T L L R S top R D G V C S C G S V A T G T G S top K H P L S L M E V Y E L R V T L M E T G R E R S H F V K T S L T V Q I L G L T R G L E L G O N S K S F Q

Figure 5

Homo sapiens beta gene segment

JB2.3 (bases 198551 to 198627), containing [SEQ ID NO:17]

Met GLSAVGRTRAESGTAERAAPVFVLGLQAVSTDTQYFGPGT

RLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFY

PDHVELSWWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSS

RLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQ

IVSAEAWGRADCGFTSESYQQGVLSATILYEILLGKATLYAV

LVSALVLMet A Met VKRKDSRGStop

Homo sapiens alpha gene segment

Ja2 (bases 84269 to 84334)

LLFKStop Stop VGPVSLCNGVTYG*Met* NTGGTIDKLTFGKGTHVFIIS...

Ja3 (83376. To 83437), containing [SEQ ID NO:18]

LQGIEAAMet StopREAHRPGENLGSTLTGCFQStopSLHFLSSK Met TITTS Stop StopYEIMetARMetStopKVINKStopStopLFStopNIIIIIIII EALLILRFTLSStopRERRIASLGNKRCKQQRPKEPFRMetLLWD PSGFQQISIKKVISKTLPTVGVQQCFQDNLWIRDQTQHPA...

Jα6(79270 to 79331), containing [SEQ ID NO:19], [SEQ ID NO:20], [SEQ ID NO: 21]

QLQEKRHIKFPLLSVLAALSEAPCIStopLKSSRARPSECLPQA SRVWCLYWGAGSRHGELLPCFSADGKVVFSPGYTGAKELSS PQPLAPAPGLQHSGALRTAVGDFLQLREYSGGFPR*Met LPNT Met GQLVEGGHMet KQVLSKAVLTVC*IRRKLHTYIWKRNQPYC SS ...

Figure 5 cont.

Ja8(76346 to 76405), containing [SEQ ID NO:22]

SIHGHHSCKKHV StopLTNS StopVW MetVKLP StopVLSRTETL StopLY Stop StopLF StopLEY Stop Stop HFYITQGIQSRIFSWVLSDLLSSSNGLRKIKVK Stop StopD Stop MetPPTTLVHACRHRNTLSN StopLACDLAILA MetAQ StopQGPILYRV MetSECEHRLSETCIWNWHPTSGQS...

Jα9(75756 to 75816), containing [SEQ ID NO:23]

QYNStopSTRAStopLLCELStopRNAGStopRHFAHRTLALRDSLKIS SSPLFIFPIRKLRPREVGStopIVStopGQCELGLGLEPGDPGPGAI FCDCCLVNStopTSDRStopEVStopVMetLINRKNKStopVLQGEYKN VLLITSTLVStopAPStopTCSPAVVStopKWKEKEMetAHFVAVQIT VGNTGGFKTIFGAGTRLFVKA...

Jα11(72705 to 72765), containing [SEQ ID NO:24]

VNSGYSTLTFGKGTMLLVSP

EHCYStopSSDVWFStopQKNPNIAVIPLStopKEQGRGFFSESSS
StopDLSILCQSVLWIQDTYIFVSSAGPTCSASDHLSLICKMetRI
IFKLMetAQLKPKStopGSGIYADYStopSIWLINEGFLSFSLCRSW
VEIPNTANHFCMetGICYSVNSGYSTLTFGKGTMLLVSP...

Jα13(71282 to 71342), containing [SEQ ID NO:25]

D Stop KILES Stop S Stop R K R Q K V W L S T S S S D L A Stop L V N L G H S I F I Y K Met K T F N I T S D F L F Stop F C G Y I I G V Y I Y F K D K L I Y V K V F C K F L N A I H S E N I I C L Stop N K K N Y V R F R I L L T Stop E F V G S Stop Stop N S H L H V I C S P R H W Stop K A L S L L L K Y S G S N A T Q Met K R A G E G K S F C K G R H Y S V N S G G Y Q K V T F G I G T K L Q V I P...

Ja14(70532 to 70583), containing [SEQ ID NO:26]

SYSMetLLKKFStopLIEERKIIYKDMetSNLLNSGKMetRLCTGVD SStopVKMetGVRAAILWLVKQDYLVKLCKSPRKKStopVSELSR EYHLDCSQAFHYIYCTTMetVPStopKBAFSGLIPWLSLYSSIKK GESSQSSHEGDSCMetLTTLIYYQGNSVIFVRQHSAVIYSTFIFG SGTRLSVKP...

Figure 5 cont (2)

Jα24(60203 to 60265), containing [SEQ ID NO:27]

KTSSYLNDRATVVISCHLSSAEDWVStopPStopVNAStopAGGFLSLQHLKRTPRLHStopPQQSGFLPLPPGRCSSWHTPSLVSStopKKRNStopKRGEKLISHIMetQLPHFVARLFPHEQFVFIQQLSSLGKPFCRGVCHSVTTDSWGKLQFGAGTQVVVTP...

Ja25(59046 to 59105)

GCLSSQ...

QKDKASPLSLGRGQGCLSSQ AQAGGRKLStopGVFAEPRNTVGITMetVRILSLVPEPDCPCCPV STVKWRStopKMetSPVLDVGRSCRVLRPGVHRDLRSGDGEEG StopKRNEKQNHKDNTEEGFIFGKENHKAVStopLTLEEMetHSFG GSLLRRALCRGKLSCStopVFDAEIITMetQKDKASPLSLGRGQ

Ja31(51207 to 51263), containing [SEQ ID NO:28]

ELGWLCSWKISLWVStopECTVPSNLCVStopGStopAHTYDSKSCStopQIRFSFGSFMetPRNAKEFStopKLISLAFLKETLFALCCRANFSSYHKRPETQRKQKKKRKKKKTQGESNCPLTTVLCVWStopGFTMetGFSKGRKCCGNNNARLMetFGDGTQLVVKP...

Jα36(45351 to 45411), containing [SEQ ID NO:29]

KLGAVSLTCNLSILEGStopGRRITStopGQEFKTTLGNTVRPPSLQKINKStopNFFKNSQAWStopHAPVILATEEVEAGGSLVPRRSRLQStopAKNTPLHSSLDNKVRSCLStopKYIFKNIKStopISStopRRRKEMetKKIWLSRKVFLYWAETLCQTGANNLFFGTGTRLTVIP...

Jα40(39930 to 39990), containing [SEQ ID NO:30], [SEQ ID NO:31], [SEQ ID NO:32], [SEQ ID NO:33]

NYKIMetSWVCLCGSStopTGSRGESStopMetEYFRGFNSHLDAStop VLICSLNQTLStopLINMetHKDSMetRLKNFCKLGPNRSSEDFLY ELRYNPKStopITCRKIRGQGLSMetGKVHVMetPLLFMetESKAASI NGNIMetLVYVETHNTVTTSGTYKYIFGTGTRLKVLA...

Figure 5 cont. (3)

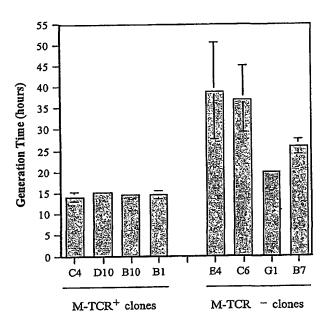
Ja41(37899 to 37961), containing [SEQ ID NO:34], [SEQ ID NO:35]

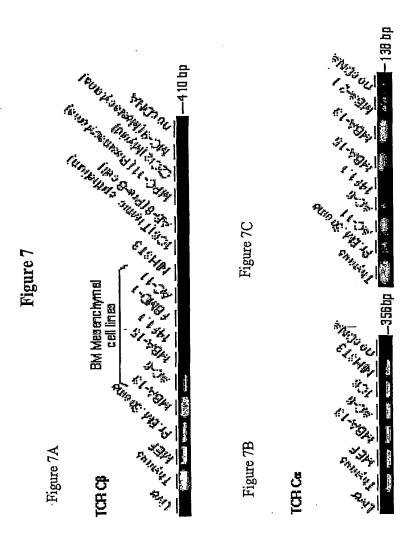
QLLSLStopYLPPTFTLEPHRIVSVHAPGCSQSRPARRSAGHRK TPDFITCHRAPSLRWQISILITHITVGSGDLVSNGLMetEEGSFI YTIKGPWMetTHSLCDCCVIGFQTLALIGIIGEGTWWLLQGVFCL GRTHCGTQIPGMHSTSAKAPRCWSHP...

Jα44(35064 to 35126), containing [SEQ ID NO:36]

LGPITHQVStopQEGFIKIKPRNRKDKEFNSQCLQSStopTStopQLL SLNHLVSTPStopPTEVKEGNQQVMetLVKStopVSGQSQLPSStopE LILWSLGKGNASVRAHPGCPSGRDHGESSEStopGSEHQ*MetES* QATGFCYEASHSVNTGTASKLTFGTGTRLQVTL...

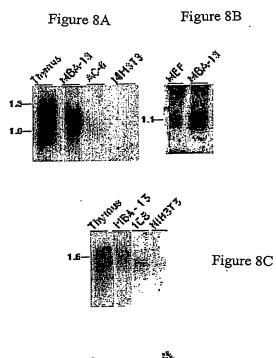
12/20 Figure 6





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Figure 8



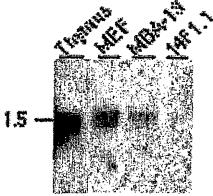
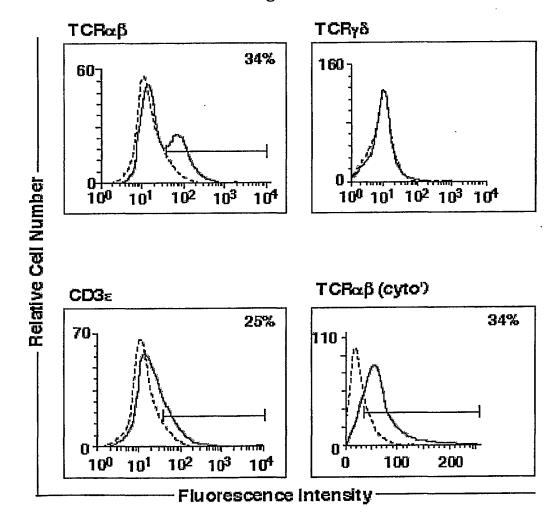


Figure 8D

15/20

Figure 9



16/20

Figure 10

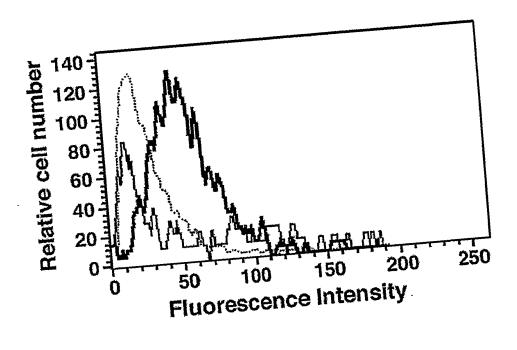


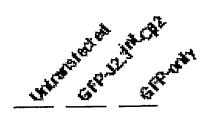
Figure 11

Intron 5' to J82.3	. IR 7 71	CB2
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	Intron 5' to JB2.9																				
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21	P	F	F	F	Z	<i>&</i> 	I	Q	A	F	S	T	D Cf	T 32	ą	¥	F	G	P	G	40
121	ACC	cgg	ctg	aca	gtg	ctc	gag	gec	ctg	aaa	EEC	gtg	ttc	CCE	CCC	gag	gtc	get	gtg	ttt	180
41	T	R	L	T	Y	L	E	n	L	K	n	¥	F	P	P	E	¥	A	Ų	F	60
181	gag	CCE	tes	gee.	gca	geg	etc	tcc	CEC	acc	CRE	eeg	gec	809	ctg	gtg	tga	ctg	gcc	EGE	240
61	E	P	S	E	A	E	I	S	H	T	Q	K	A	T	L	¥	С	L	A	T	80
241	ggc	ttc	tec	CCC	dec.	CEC	gtg	gag	ctg	egc	tgg	ւեցց	gtg	reet	gg g	bererč	ded	gtg	CEC	egt	300
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301	ggg	gtc	agc	ece	gac	ccg	cag	ccc	ctc	aag	āsā	CSG	CCC	gcc	ctc	Eat	dec	tcc	eās.	tec	360
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361	tgc	ctg	age	ego	cdc	otg	a dd	gto	teg	ācc	ec c	tto	tgg		Bec		cãs	HEC	CED	tto	420
	č																				140
421	cgc	tgt	caa	gta	ceg	ttc	tec	مقق	ctc	teg	āed	aat	dec	gag	r <u>o</u> g	ne.cc	CED	get	rāā	ācc	48 N
	R																				160
481	HMA	CCC	gtc	<i>6</i> 00	ceg	ato	gte	EUC	ācc	dad	ācc	tgg	ggt	ega	.gcs	De c	tgt	āāc	tte	ecc.	540
	K																				180
541	tcc	geg	tct	tac	cag	CHR	āāā	gtc	ctg	tet	gee	800	atc	cto	tet	gaç	matc	ttg	cta	āāā	600
	5				-																
60i	aag	gec	BCC	ttg	tet	ges	gtg	ctg	gtc	egt	gec	oto	gtg	etg	matg	an c	atg	gtc	ssà	aga	660
201	K	A	T	L	¥	A	¥	L	¥	S	A	L	Ţ	L	Ħ	Å	Ħ	¥	K	R	220
661	aag	gat	toc	ege	ggc	tag														_	78
221	ĸ	D	5	Ř	G	*														2	25

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Figure 12



64kDa ---

50kDa —

36kDa

22kDa ----

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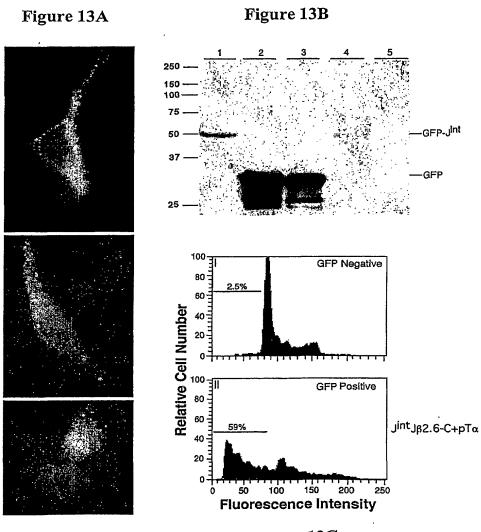
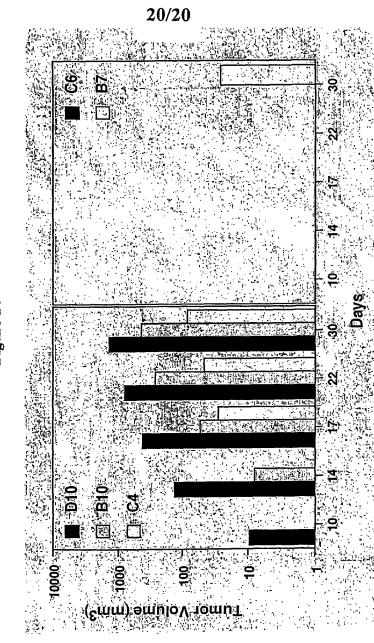


Figure 13C



igure 14